

REMARKS

Claims 1 - 28 are pending in the application. Claim 6-15 and 16-23 are allowed. Claims 1 and 24 stand rejected by the Examiner over *Corcoran* in US Patent 4,839,869. Claims 2-5 and 25-28 are objected to by the examiner as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form. Claims 1 and 24 have been amended to include the limitations of claim 3 and 26 respectively, and of using an ideal water velocity for determination of a vertical time correction. *Corcoran* does not disclose use of an ideal water velocity. Claims 3 and 26 have been canceled. Reconsideration of the application is respectfully requested. No new matter has been added.

Applicant submits that the application is patentable over the prior art of record and respectfully requests that the claims of the application be allowed. No new material has been added by this office action response. Consideration of the application, as amended, is respectfully requested. No fee is believed to be due for these amendments. The Commissioner is hereby authorized to charge any fee due for these amendments to Deposit Account No. 50-1720 (594-25572).

Respectfully submitted,



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